

What is claimed is:

1        1. A cooling system comprising:

2            a) a movable frame having an evaporative pad secured thereto, said movable frame

3            having an upper position and a lower position;

4            b) a nozzle positioned to deposit water onto said evaporative pad;

5            c) a misting valve controlling the application of water through said nozzle, said misting

6            valve being controlled by said movable frame such that:

7              1) when said movable frame is in the upper position, water passes through said

8              misting valve to said nozzle, and,

9              2) when said moveable frame is in the lower position, water is not permitted to

10             pass through said misting valve to said nozzle.

1        2. The cooling system according to claim 1, wherein said movable frame moves to the

2        lower position when said evaporative pad is substantially saturated with water.

1        3. The cooling system according to claim 2,

2            a) further including an air channel configured to communicate air into a dwelling; and,

3            b) wherein said movable frame is contained within said air channel such that air passes

4            through said evaporative pad before entering said dwelling.

1           4. The cooling system according to claim 3, further including adjustment means for  
2 operator definition of a weight required to move said movable frame from said upper position to  
3 said lower position.

1           5. The cooling system according to claim 3, further including a drip pan positioned to  
2 collect liquid water from said evaporative pad.

1           6. The cooling system according to claim 2, further including means for suspending said  
2 moveable frame within an attic of a dwelling.

1           7. The cooling system according to claim 6, wherein said nozzle is secured to said means  
2 for suspending.

1           8. A cooling system comprising:  
2           a) a movable evaporative pad having an upper position and a lower position; and,  
3           b) a nozzle positioned to deposit water onto said evaporative pad only when said  
4 evaporative pad is in the upper position.

1           9. The cooling system according to claim 8, further including a misting valve controlling  
2       the application of water through said nozzle such that:

- 3           a) when said evaporative pad is in the upper position, water passes through said misting  
4       valve to said nozzle; and,
- 5           b) when said evaporative pad is in the lower position, water is not permitted to pass  
6       through said misting valve to said nozzle.

1           10. The cooling system according to claim 9, further including adjustment means for  
2       defining a weight required to move said movable frame from said upper position to said lower  
3       position.

1           11. The cooling system according to claim 10, further including a drip pan positioned to  
2       collect liquid water from said evaporative pad.

1           12. The cooling system according to claim 12, further including means for suspending said  
2       evaporative pad within an attic of a dwelling.

1           13. The cooling system according to claim 12, wherein said nozzle is secured to said  
2       means for suspending.

- 1           14. A cooling system comprising:
- 2           a) a duct communicating ambient air to an interior of a dwelling;
- 3           b) a movable frame positioned within said duct, said moveable frame having an
- 4           evaporative pad secured thereto, said movable frame having an upper position and a lower
- 5           position within said duct;
- 6           c) a nozzle positioned to deposit water onto said evaporative pad such that weight of said
- 7           water causes said frame to move to the lower position;
- 8           d) a misting valve controlling the application of water through said nozzle, said misting
- 9           valve being controlled by said movable frame such that:
- 10           1) when said movable frame is in the upper position, water passes through said
- 11           misting valve to said nozzle, and,
- 12           2) when said moveable frame is in the lower position, water is not permitted to
- 13           pass through said misting valve to said nozzle.

1           15. The cooling system according to claim 14, further including adjustment means for

2           operator definition of a weight required to move said movable frame from said upper position to  
3           said lower position.

1           16. The cooling system according to claim 15, further including a drip pan positioned to

2           collect liquid water from said evaporative pad.